



Engineering, Operations & Technology Committee

Prestressed Concrete Cylinder Pipe Rehabilitation Program Update

Item 6a

June 8, 2026

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Item 6a

Prestressed Concrete Cylinder Pipe Rehabilitation Program Update

Subject

Update on Metropolitan's Prestressed Concrete Cylinder Pipe Rehabilitation Program

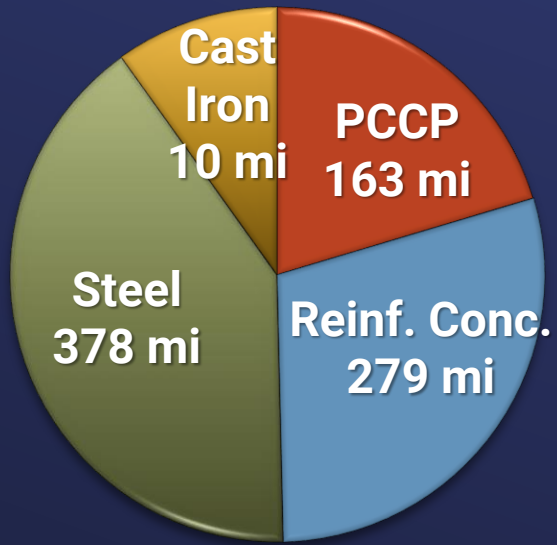
Purpose

Provide briefing on status of the PCCP Rehabilitation Program

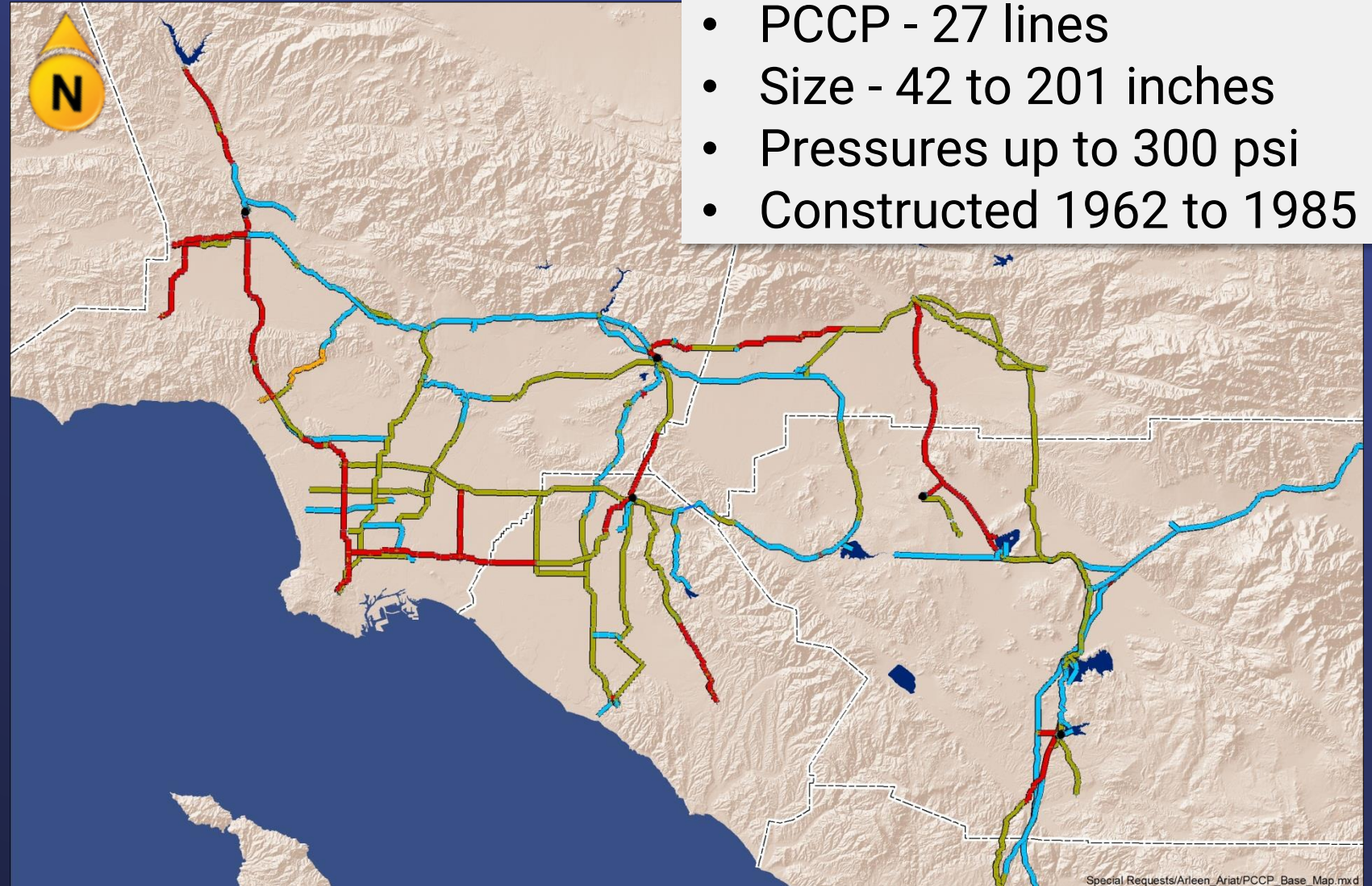
Next Steps

Continue implementation of the PCCP Rehabilitation Program with a schedule consistent with board priorities

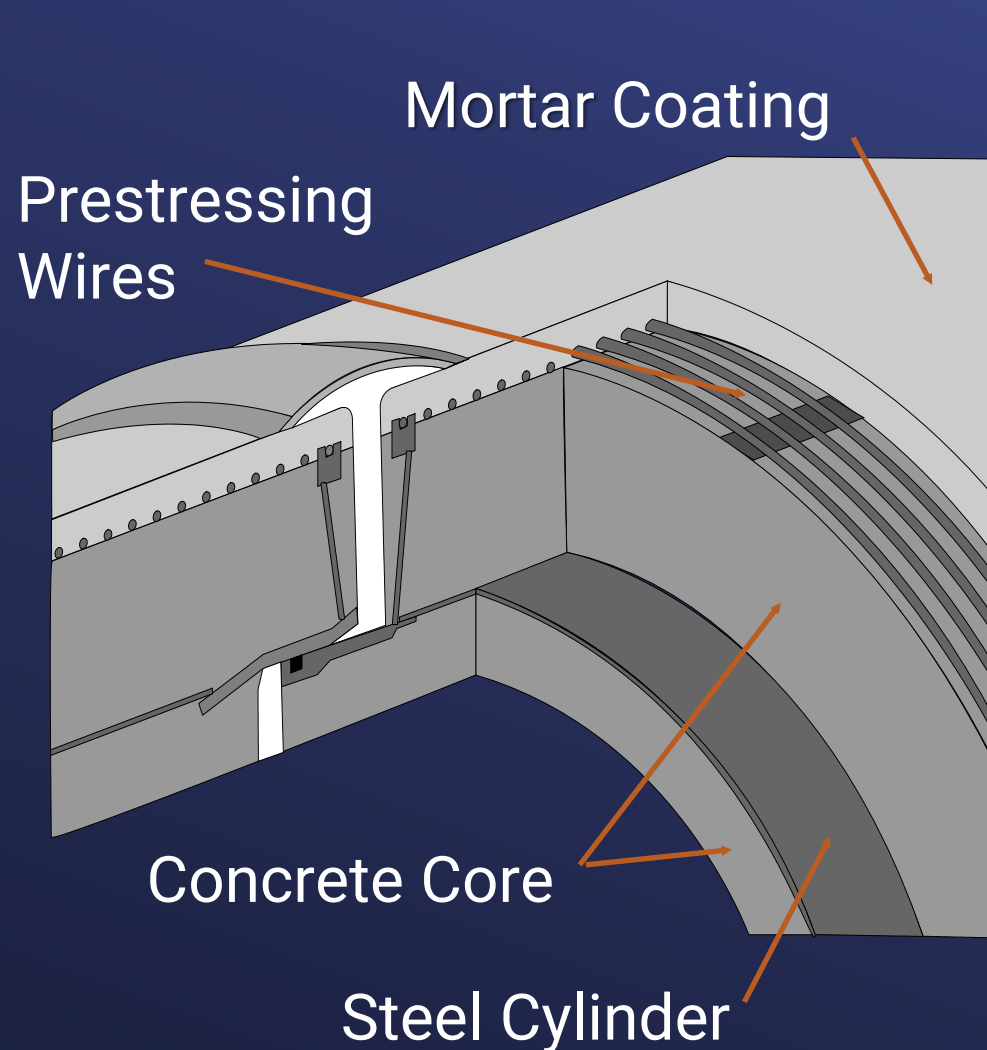
Distribution System



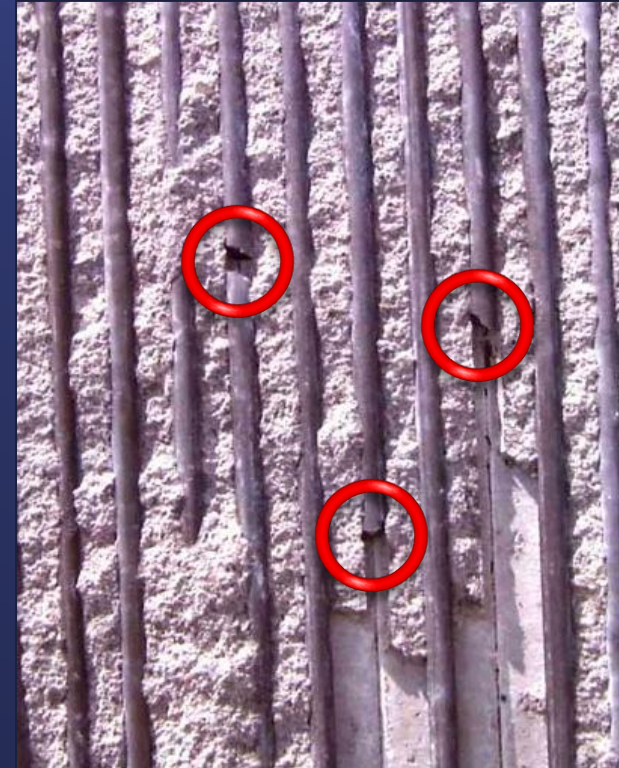
Breakdown Prior to
PCCP Relining



Prestressed Concrete Cylinder Pipe (PCCP)



Broken
Prestressing Wires



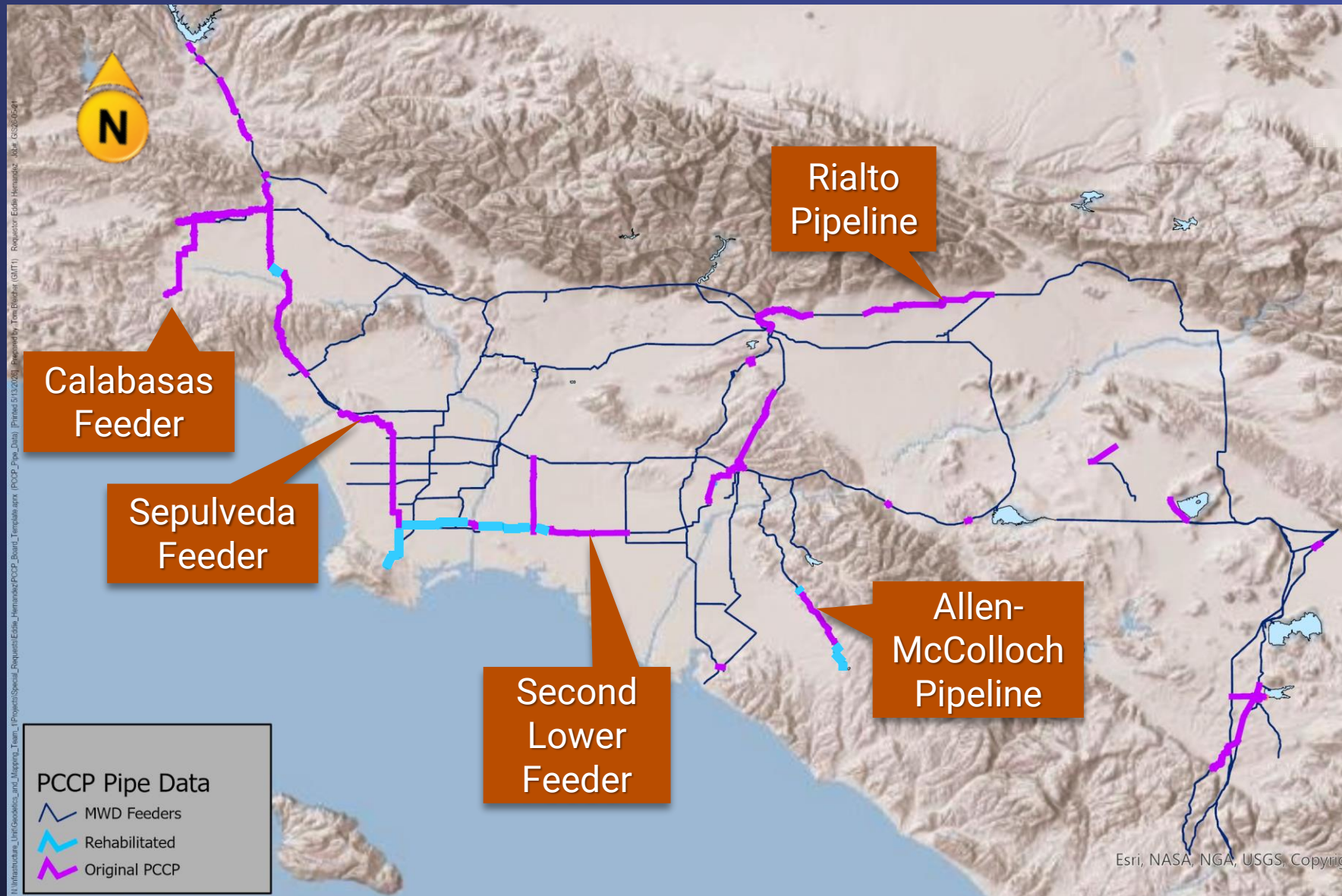
PCCP Management Strategy

- Continue regular inspection & monitoring
 - Visual & electromagnetic inspections
 - Investigate new technologies
- Monitor stray currents & install drain stations where necessary
- Rehabilitate distressed segments
- Plan & execute long-term rehabilitation
 - Identify & prioritize reaches
 - Reline or replace pipelines based on priority of individual reaches
 - Adjust priorities as needed



Second Lower Feeder
Relining

PCCP Rehabilitation Program



Significant Accomplishments

- Certified Programmatic EIR (2017)
- Second Lower Feeder (78 to 84-inch diameter)
 - 6 Reaches completed; 17.8 miles relined (60%)
- Allen-McColloch Pipeline (78 to 84-inch diameter)
 - Completed urgent relining of 3.5 miles (40%)
- Sepulveda Feeder (84 to 150-inch diameter)
 - Reach 2 relining currently underway (15%)
- Rialto Pipeline (96 to 144-inch diameter)
 - Completed Preliminary Design for one reach
- Calaberas Feeder (54-inch diameter)
 - Preliminary Design to be completed in June



Allen-McColloch Pipeline Relining

Sepulveda Feeder Pump Stations

- Initial stage (30 CFS) under construction
- Sepulveda Feeder Pump Stations Stage 2
 - Includes potential for expansion up to 160 CFS
 - Being evaluated under CAMP4Water
 - Requires additional surge protection or Sepulveda Feeder relining
- Reprioritized Sepulveda Feeder Relining
 - Relining of Sepulveda Feeder north reaches not possible during Garvey Reservoir outage
 - Evaluating other alternatives to mitigate surge pressures
 - Adjusted Sepulveda Feeder relining based on risk rather than support of Sepulveda Feeder Pump Station expansion

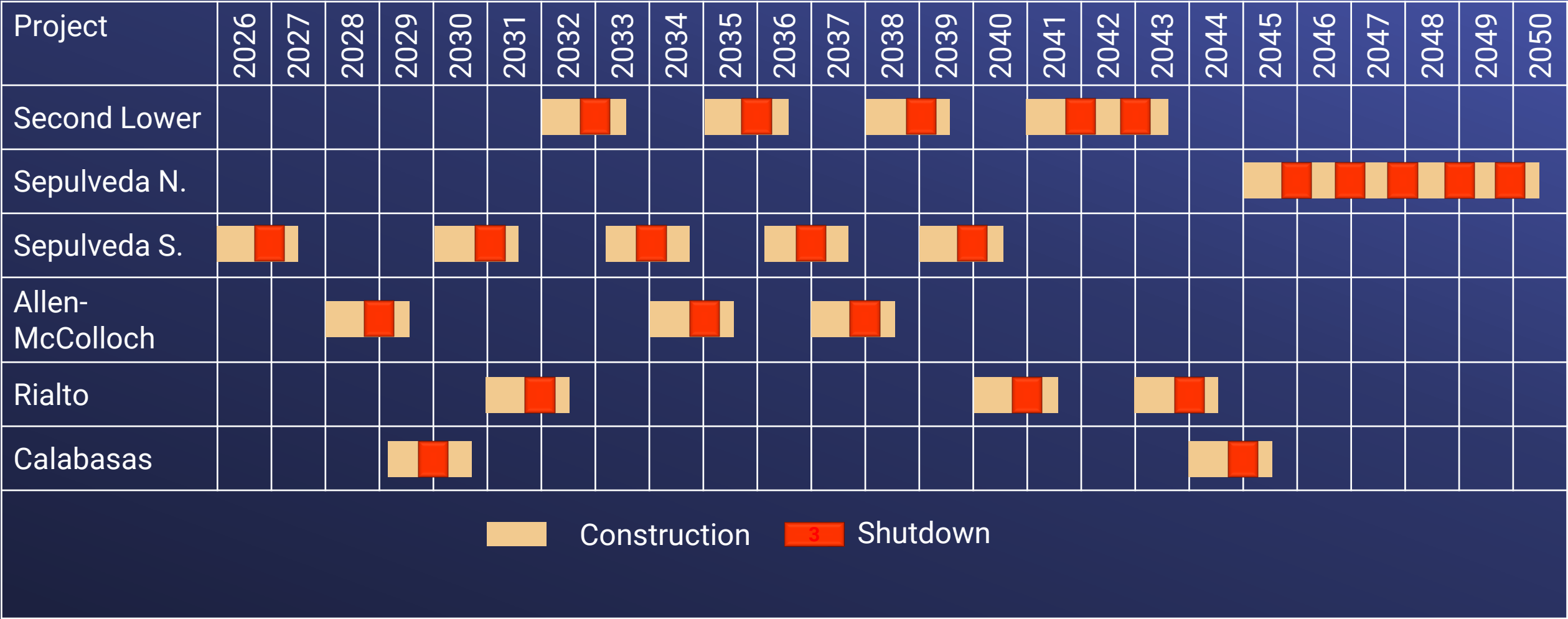


Venice Pump Station
Rendering

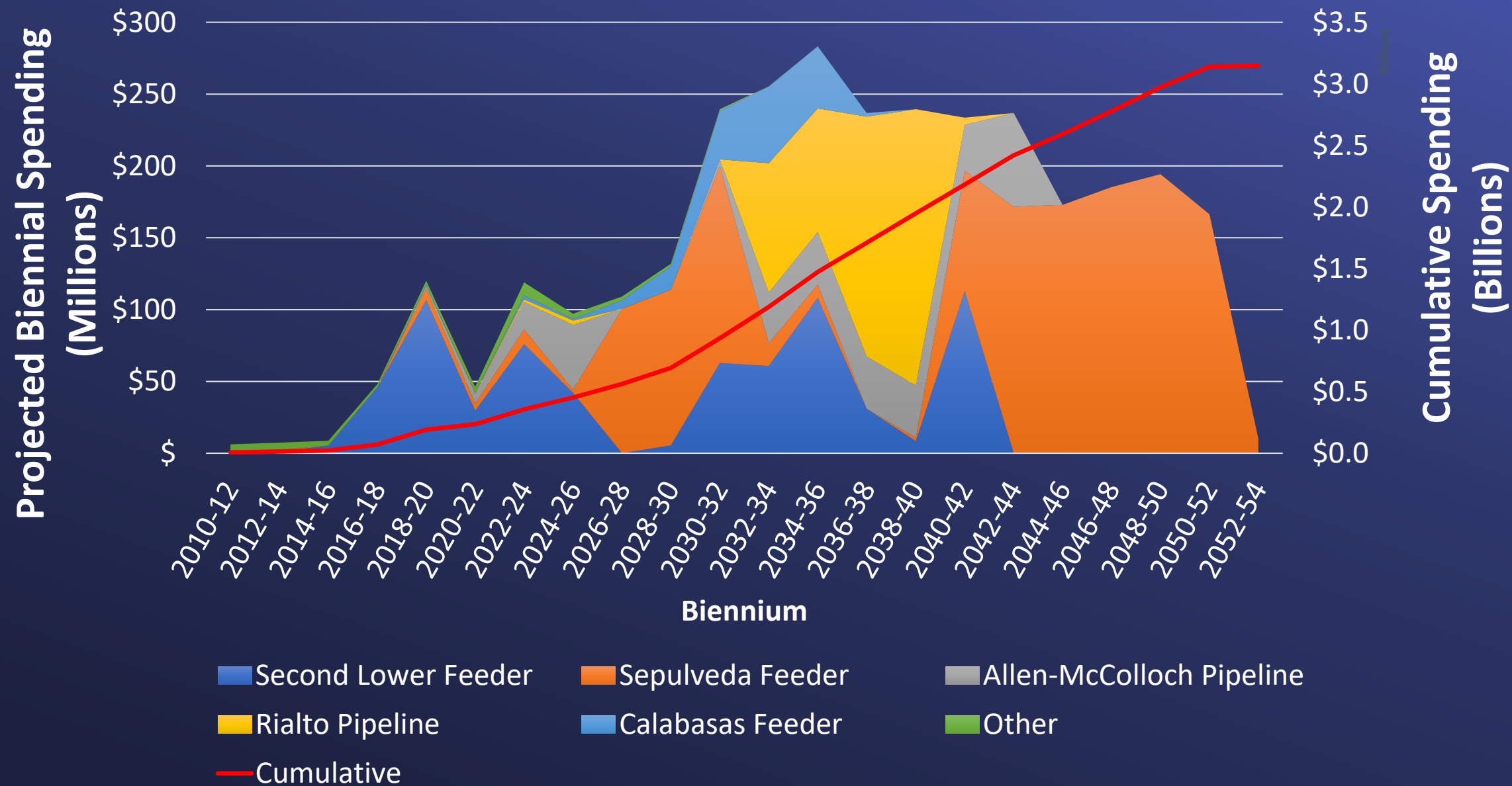
Program Schedule Update

- Schedule Drivers
 - Operational restrictions limit ability to shut down multiple feeders
 - Member agency supplies & demands impact shutdown durations
- Adjusted program schedule to meet CIP budget limits
 - Extended overall schedule based on one relining contract per year
- Construction sequence based on latest inspection data
- PCCP failure risk can be mitigated with increased inspection
 - Highest risk areas already relined or currently being addressed
 - Inspections show remaining PCCP wire breaks not increasing
 - Potential for increased urgent relining projects

PCCP Rehabilitation Program Schedule



PCCP Rehabilitation Program Estimated Cash Flow



2025/2026 Electromagnetic Inspections

Pipeline	Miles
Box Springs Feeder	2.3
West Valley Feeder No.1	7.3
Jensen Washwater Return Line	0.2
LA Aqueduct Interconnection	0.2
Diemer/AMP Bypass	0.1
Irvine Cross Feeder	0.4
South Coast Feeder	7.3
Total for 2025/26	17.8



Electromagnetic Inspection

Proposed PipeDiver Inspection

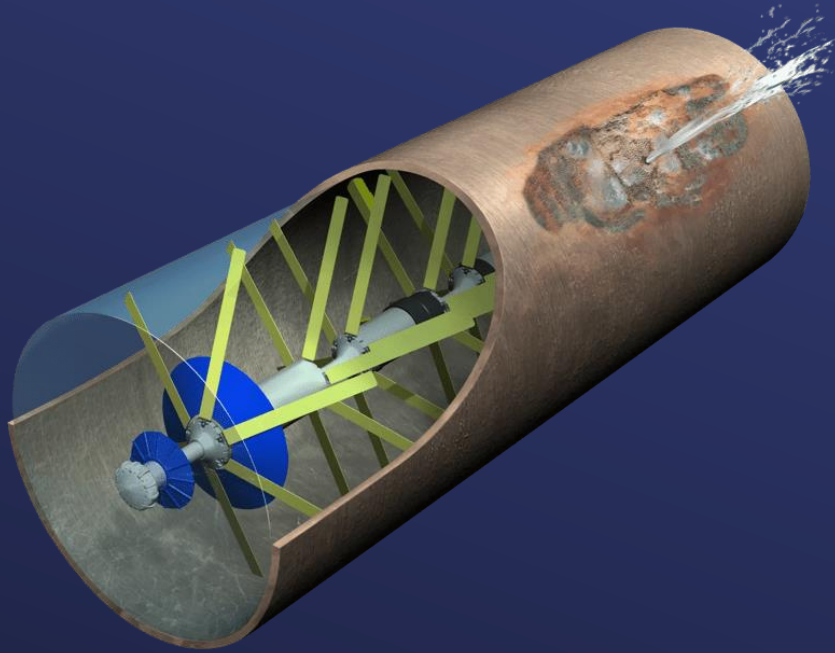


Illustration of PipeDiver Tool



Prior Sepulveda Feeder Inspection



Calibration of PipeDiver tool
for 201-inch diameter
at Foothill PCS

Next Steps

- Continue implementation of PCCP Rehabilitation Program strategy to mitigate risk
- Complete preliminary designs for all feeders
- Upcoming 2026/27 Inspections including AMP & Foothill Feeder
- Inspection of Foothill Feeder with PipeDiver
 - Return for amendment of existing agreement in July
- Continue to evaluate surge mitigation options for Sepulveda Feeder Pump Plant Stage 2
 - Complete final design for Sepulveda Feeder north reach relining & prepare to pivot if relining is necessary

